

Title (en)
COMPUTATIONAL SYSTEMS PATHOLOGY SPATIAL ANALYSIS PLATFORM FOR IN SITU OR IN VITRO MULTI-PARAMETER CELLULAR AND SUBCELLULAR IMAGING DATA

Title (de)
PLATTFORM ZUR RÄUMLICHEN ANALYSE DER RECHENSYSTEMPATHOLOGIE FÜR ZELLULARE ODER SUBZELLULARE IN-SITU- ODER IN-VITRO-MULTIPARAMETERBILDGEBUNGSDATEN

Title (fr)
PLATEFORME D'ANALYSE SPATIALE DE PATHOLOGIE À SYSTÈMES DE CALCUL POUR DONNÉES D'IMAGERIE CELLULAIRES ET INFRACELLULAIRES À PARAMÈTRES MULTIPLES IN SITU OU IN VITRO

Publication
EP 3897360 A1 20211027 (EN)

Application
EP 19898372 A 20191216

Priority
• US 201862781759 P 20181219
• US 2019066446 W 20191216

Abstract (en)
[origin: WO2020131658A1] A computational systems pathology spatial analysis platform includes: (i) a spatial heterogeneity quantification component configured for generating a global quantification of spatial heterogeneity among cells of varying phenotypes in multi-parameter cellular and subcellular imaging data; (ii) a microdomain identification component configured for identifying a plurality of microdomains for tissue samples based on the global quantification, each microdomain being associated with a tissue sample; and (iii) a weighted graph component configured for constructing a weighted graph for the multi-parameter cellular and subcellular imaging data, the weighted graph having a plurality of nodes and a plurality of edges each being located between a pair of the nodes, wherein in the weighted graph each node is a particular one of the microdomains and the edge between each pair of microdomains in the weighted graph is indicative of a degree of similarity between the pair of the microdomains.

IPC 8 full level
A61B 5/00 (2006.01); **C12M 1/34** (2006.01); **G01N 21/84** (2006.01); **G01N 33/48** (2006.01); **G01N 33/483** (2006.01); **G01N 33/53** (2006.01); **G06V 10/426** (2022.01)

CPC (source: EP US)
A61B 5/00 (2013.01 - EP); **G01N 33/48** (2013.01 - EP); **G01N 33/574** (2013.01 - US); **G06F 18/22** (2023.01 - EP); **G06T 7/0012** (2013.01 - US); **G06V 10/426** (2022.01 - EP US); **G06V 10/761** (2022.01 - EP US); **G06V 20/698** (2022.01 - EP US); **G06T 2207/30024** (2013.01 - US); **G06T 2207/30096** (2013.01 - US); **G06V 2201/03** (2022.01 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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DOCDB simple family (publication)
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US 2019066446 W 20191216; CA 3123641 A 20191216; CN 201980084101 A 20191216; EP 19898372 A 20191216; JP 2021535632 A 20191216; JP 2023222063 A 20231228; US 201917413971 A 20191216; US 202418437612 A 20240209